Index of Claims

| Application No. | Applicant(s)   |  |  |  |  |  |  |  |  |
|-----------------|----------------|--|--|--|--|--|--|--|--|
| 10/087,771      | YAMAMOTO ET AL |  |  |  |  |  |  |  |  |
| Examiner        | Art Unit       |  |  |  |  |  |  |  |  |
| Kin-Chan Chen   | 1765           |  |  |  |  |  |  |  |  |

√ Rejected
= Allowed

- (Through numeral)
Cancelled
+ Restricted

Non-Elected
I Interference

A Appeal
O Objected

| Cl  | aim      | Date     |          |          |          |           |          | Claim    |           | Date     |      |       |           |                 |          | <b></b>  | CI   | aim      | Date    |                   |          |       |            |                 |           |          |          |  |              |          |   |
|---|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|------|-------|-----------|-----------------|----------|----------|--|----------|---------|-------------------|----------|-------|------------|-----------------|-----------|----------|----------|--|--------------|----------|---|
| _   | ল        | 4/       |          |          |          |           |          |          |           |          |      | _     | व         |                 |          |          |  |          |         |                   |          |       | al         |                 |           |          |          |  | П            |          |   |
| Final   | Original | LU       | 1        |          |          |           |          |          |           |          |      | Final | Original  |                 | - 1      |          | 1 1  |          |         |                   |          | Final | Original   |                 |           |          |          |  |              |          | į |
| ш.  | \ ō,     | ЬŲ       | 1        |          |          |           |          |          |           |          |      | ш     | ö         |                 | İ        | - 1      |  |          |         |                   |          | II.   | Ö          |                 |           |          |          |  |              | ĺ        |   |
|   | 1        | ــد      |          | ļ        | -        |           |          | H        |           |          |      |       | 51        | $\vdash$        | -        |          | +  | +        |         | +                 |          |       |            |                 |           | ╁        | +        | ├  | -            | -        | _ |
|   | 2        | <u>`</u> | $\vdash$ | _        | $\vdash$ | -         | $\vdash$ | Н        |           |          |      |       | 52        | Н               | $\dashv$ | +        | ╁━   |          | ╁       |                   |          |       | 101<br>102 | $\vdash$        | -         | - -      | ╁        | ╁  | Н            | $\dashv$ | _ |
|   | 3        | H        |          | _        | -        | -         | -        |          |           |          |      |       | 53        | H               | $\dashv$ | +        |  | +        | +       |                   |          |       | 103        | $\vdash$        | -         | ╁        | +        | ╁  | $\vdash$     | -4       |   |
|   | 4        |          | -        | _        | _        | -         |          |          |           |          |      |       | 54        | $\Box$          | 十        | $\top$   | +  |          | +       |                   |          |       | 104        | $\vdash$        | -         | ╁        | +        |  |              | $\dashv$ |   |
|   | 5        | $\sqcap$ |          |          |          |           |          | П        |           |          |      |       | 55        |                 | _        | _        | 17   | $\neg$   |         |                   |          | -     | 105        |                 | _         | $\top$   | +        | 1  | H            | $\neg$   |   |
|   | 6        |          |          |          |          |           |          |          |           |          |      |       | 56        |                 | 1        |          |  |          |         | 1                 |          |       | 106        |                 |           | T        | T        | $\top$                                       | П            |          | _ |
|   | 7        | Ш        |          |          |          |           |          |          |           |          |      |       | 57        |                 |          |          |  |          |         |                   |          |       | 107        |                 |           |          |          |  |              |          |   |
|   | 8        | Щ        |          | ļ.,,     |          |           |          | Ш        | Ш         |          |      |       | 58        |                 |          |          |  |          |         |                   |          |       | 108        |                 |           |          |          |  |              |          |   |
|   | 9        | H        |          |          |          | _         |          | Ш        | _         |          |      |       | 59        |                 |          |          |  | _ .      | - -     |                   |          |       | 109        |                 | _ _       | $\bot$   |          |  | Ш            | $\Box$   | _ |
| -   | 10       | 1        | <u> </u> |          |          | _         |          |          |           | _        |      |       | 60        |                 | _        |          | -  | _        | _       |                   |          |       | 110        | $\sqcup$        | $\perp$   | $\bot$   | 4_       |  | Ш            |          |   |
|   | 11<br>12 | =        | $\vdash$ |          |          | -         | Н        | $\vdash$ |           | _        |      |       | 61        | $\vdash$        |          | +        | $\vdash$   |          | +       | -                 |          |       | 111        | $\vdash \vdash$ |           | +        | -        | ļ  | $\sqcup$     | 4        | _ |
|   | 13       | $\vdash$ | $\vdash$ |          | -        | H         |          | Н        | $\vdash$  | -        |      |       | 62<br>63  | $\vdash$        | $\dashv$ | -        |  | +        | +-      | +                 |          |       | 112<br>113 | $\vdash$        | +         | +        |          | ₩  | Н            |          |   |
|   | 14       |          |          |          |          | Н         | $\vdash$ | $\vdash$ | -         | $\dashv$ |      | -     | 64        | $\vdash \vdash$ | +        | +        | +-   | +        | +       |                   |          |       | 114        | $\vdash \vdash$ |           | +        | +        | ├-   | $\vdash$     | $\dashv$ |   |
|   | 15       | Г        |          | _        |          | $\vdash$  | Н        | $\vdash$ |           | $\dashv$ |      |       | 65        | H               | $\dashv$ | +        | +  | +        | +       | +-                |          |       | 115        | $\vdash$        | -         | +        | +        |  | H            | $\dashv$ | _ |
|   | 16       | <b></b>  |          |          | П        |           |          |          |           | $\neg$   |      |       | 66        | -               | _        | +        | $\dagger \dagger$  | +        | $\top$  | -                 |          |       | 116        | $\vdash$        |           | +        | +        | <del> </del>                                 | $\vdash$     | $\dashv$ |   |
|   | 17       |          |          |          |          |           |          |          |           |          |      |       | 67        |                 | $\dashv$ | $\top$   | $\Box$   | _        | +       |                   |          |       | 117        | $\dashv$        | $\dashv$  | $\top$   | T        | <b>†</b>                                     | $\vdash$     | $\dashv$ |   |
|   | 18       |          |          |          |          |           |          |          |           |          |      |       | 68        |                 | T        |          |  |          |         |                   |          |       | 118        | Ì               | 1         | 1        | 1        |  |              | ヿ        | _ |
|   | 19       |          |          |          |          |           |          |          |           |          |      |       | 69        |                 |          |          |  |          |         |                   |          |       | 119        |                 |           | T        | 1        |  |              | コ        | _ |
|   | 20       |          |          |          |          |           |          |          |           |          |      |       | 70        |                 |          |          |  |          |         |                   |          |       | 120        |                 |           |          |          |  |              |          |   |
|   | 21       |          |          |          |          |           |          |          |           |          |      |       | 71        |                 | _        |          |  |          | Ц.,     |                   |          |       | 121        |                 | 丄         |          |          |  |              |          |   |
|   | 22       | _        |          |          | _        |           |          |          | _         | _        |      |       | 72        |                 | $\dashv$ | _        | $\perp$  |          | $\perp$ | $\perp$           |          |       | 122        |                 |           | <u> </u> | <b>.</b> | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |              |          |   |
|   | 23       |          |          |          |          |           |          | $\dashv$ | _         | $\dashv$ |      |       | 73        | $\square$       | $\dashv$ |          | +  |          | $\perp$ | +                 |          |       | 123        |                 |           | ┸        | <u> </u> | _  | $\sqcup$     |          |   |
|   | 24<br>25 |          |          |          |          |           | _        |          |           | $\dashv$ |      |       | 74<br>75  | $\dashv$        | +        | $\dashv$ | 1-1  | -        | +       |                   |          |       | 124        | -               | _         | +        | +        |  |              | _        |   |
| -   | 26       |          |          | -        |          | $\dashv$  |          | $\dashv$ | ┪         |          | ŀ    |       | 76        | H               |          | +        | ╁  |          |         | ╌┤                |          |       | 125<br>126 | $\dashv$        | -         | +        | -        |  | $\dashv$     |          | _ |
|   | 27       |          |          |          |          |           | _        | $\vdash$ | $\dashv$  | $\dashv$ |      |       | 77        |                 | +        |          | +  |          | +       | +                 |          |       | 127        | $\dashv$        | -         | +        | ╁        | -  | $\dashv$     | $\dashv$ | _ |
|   | 28       |          |          |          |          |           |          |          | $\exists$ | 一        | ŀ    |       | 78        |                 | 十        | _        | ╁╼╁  | $\dashv$ | +       | +                 |          |       | 128        | -+              | $\dashv$  | ╁        | +-       |  | $\dashv$     | $\dashv$ | _ |
|   | 29       |          |          |          |          | $\neg$    |          |          | 寸         |          |      |       | 79        |                 | _        |          |  | 十        | +       | 11                |          |       | 129        | 1               |           | 十        | +        |  |              | $\dashv$ | _ |
|   | 30       |          |          |          |          |           |          |          |           |          |      |       | 80        |                 |          |          |  | $\top$   | $\top$  | 1                 |          |       | 130        |                 | 1         | $\top$   | -        |  |              | $\dashv$ | _ |
|   | 31       |          |          |          |          |           |          |          |           |          |      |       | 81        |                 |          |          |  | T        |         |                   |          |       | 131        | $\Box$          |           | 1        | Τ        |  |              | $\neg$   |   |
|   | 32       |          |          |          | _]       | ]         |          | $\Box$   |           |          |      |       | 82        |                 | $\perp$  |          | $\Box$   |          |         |                   |          |       | 132        |                 |           | I        |          |  |              | ╛        |   |
|   | 33       |          |          | _        |          | _         | _        |          | _         | _        |      |       | 83        |                 | _        | $\perp$  | 1  |          |         | $\bot$            |          |       | 133        |                 |           | L        | 匚        |  |              | $\Box$   |   |
|   | 34       |          | $\Box$   | _        |          |           | _        |          | _         | _        |      |       | 84        | $\Box$          | -        | $\perp$  | $\sqcup$   | $\perp$  | $\perp$ | $\bot$            |          |       | 134        | _               | _ _       | 1        | 1        | Ц  |              | $\Box$   |   |
|   | 35<br>36 | _        | -        | $\dashv$ |          |           | $\dashv$ | $\dashv$ | -         | $\dashv$ | -    | -     | 85        | $\Box$          | +        | +        | $\vdash$   | -        | +       | +                 |          |       | 135        | _               |           | 1        | ┼        | Щ  |              | 4        |   |
|   | 37       | -        | -        | $\dashv$ |          |           | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | ŀ    |       | 86<br>87  |                 | - -      | +        | $\vdash$   | +        | +       | +                 |          |       | 136<br>137 | -               | $\dashv$  | +        | +        | Н  |              | 4        |   |
|   | 38       | -        | $\dashv$ | $\dashv$ |          | $\dashv$  | $\dashv$ |          | $\dashv$  | $\dashv$ | -    |       | 88        | -               | +        | +        | +1   | +        | +-      | +                 |          |       | 137        | $\dashv$        |           | +        | +-       | Н  | $\dashv$     | $\dashv$ |   |
|   | 39       | $\dashv$ | -        |          | $\dashv$ | -         | $\dashv$ | $\dashv$ |           | $\dashv$ | :::: |       | 89        | $\dashv$        | +        | +        | +  | +        | +       | $\dashv \dashv$   | ŀ        |       | 139        | $\dashv$        |           | +        | $\vdash$ | Н  | $\dashv$     | -+       | _ |
|   | 40       |          | $\dashv$ |          | _        |           | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | ı    |       | 90        |                 | +        | +        | † †  | +        | +-      | +                 | <b>.</b> |       | 140        | $\dashv$        | +         | +        | +-       | Н  |              | $\dashv$ | _ |
|   | 41       |          |          |          |          | $\exists$ |          |          | $\dashv$  | $\dashv$ | ı    |       | 91        | 7               | _        | +        | $\vdash$   | +        | +       | $\dagger \exists$ |          |       | 141        | $\dashv$        |           | +        | $t^-$    | $\vdash$                                     | 十            | $\dashv$ |   |
|   | 42       |          |          |          |          |           |          |          |           |          | ı    |       | 92        |                 |          |          |  | $\top$   | $\top$  | 17                |          |       | 142        | $\dashv$        | $\dashv$  | +        | $t^-$    | Н  | $\dashv$     | 7        |   |
|   | 43       |          |          |          |          |           |          |          |           |          |      |       | 93        | J               |          |          |  |          |         |                   | Ì        |       | 143        | _1              | $\exists$ | 1        | T        | H  | $\top$       | 寸        |   |
|   | 44       |          | $\perp$  |          |          |           |          | $\Box$   | $\Box$    |          |      |       | 94        | $\prod$         | $\Box$   |          |  |          |         |                   |          |       | 144        | J               |           |          |          |  |              | $\Box$   | _ |
|   | 45       | _        | _        |          | _        | $\perp$   | ļ        |          | $\dashv$  |          |      |       | 95        | $\Box$          | $\perp$  | $\perp$  |  | $\perp$  | $\perp$ | $\perp \Box$      | [        |       | 145        | $\Box$          |           |          |          |  | $\Box$       | I        |   |
| <b> </b>  | 46       | _        | _        | _        | _        | _         | _        | _ļ       | ļ         | _        | 1    |       | 96        | _               |          | 4        | Ш  | _ _      | 4_      | $\perp \perp$     |          |       | 146        |                 | Ц.        |          |          |  | $\bot$       | _[       | _ |
| $-\!$ | 47       |          |          | 4        | -        | _         | _        | $\dashv$ | $\dashv$  | _        |      |       | 97        |                 | $\perp$  | +-       | $\sqcup$   | _        | $\perp$ | igspace           |          |       | 147        | _               |           | ↓_       | _        | Щ  | $\perp$      | _        |   |
|   | 48<br>49 | $\dashv$ | $\dashv$ | -        |          | $\dashv$  |          | $\dashv$ | $\dashv$  | -        |      |       | 98        | -               |          | +        | $\vdash \downarrow$  | +        | +       | +                 |          |       | 148        | $\dashv$        |           | 4        | ــــ     | Ш  | $\downarrow$ | 4        |   |
|   | 50       | -        |          | $\dashv$ | +        | $\dashv$  | $\dashv$ | -+       | $\dashv$  | $\dashv$ | H    |       | 99<br>100 | $\dashv$        |          |          | $\vdash$   | +        | +       | +                 | 1        |       | 149        | _               |           | -        | ₩        | $\mid \rightarrow \mid$                      | $\dashv$     | $\dashv$ |   |
|   | 20       |          |          |          |          |           | _1       |          |           | :        | L    |       | 100       | L               | L        |          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |          |         | Ш                 | [        |       | 150        |                 |           |          |          | ıİ   | - 1          |          |   |